

ABSTRACT OF THE DISCLOSURE

A voltage-controlled oscillator (VCO) generates an output signal with adjustable frequency. The VCO circuitry includes a variable capacitor circuitry and a voltage-generator circuitry. In response to a plurality of control signals, the variable capacitor circuitry adjusts the frequency of an output signal of the VCO circuitry. The voltage-generator circuitry generates the plurality of control signals and provides them to the variable capacitor circuitry. The voltage level of each of the plurality of the control signals differs by an offset voltage from the voltage level of the remaining signals in the plurality of signals.